BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of work: Detailed Estimate for the Work of Improvements to Roads and Drains at Balaji Layout near Shobha Apartments near Railway Bridge in Ward No. 6 Byatarayanapura Sub Division

		Estimate Cost Rs.						2000000.00	
Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRB 2-2.1 : earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in Hard soil not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, No. 5/ Item No. 2.4/ PWD SR 2015-16	Cum							
	B S Slab Drine 2nd cross		1	300.00	0.75	0.75	168.75		
	Balaji layout 1st Cross		1	75.00	0.75	0.75	42.19		
	For Culverts		3	6.50	1.95	1.05	39.93		
							250.86	288.36	**72339.00**
	Basic Rate	267.00							
	Area Weightage @ 8%	21.36							
	Total	**288.36**							
2	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar(1:6) including fixing curing etc, complete -do- 7.5 cms thick Page No. 28/ Item No. 5.31.1/ PWD SR 2015-16	**Sqm**							
	New Slab Drain		1	300.00	1.65		495.00		
			1	75.00	1.65		123.75		
							618.75	663.12	**410306.00**
	Basic Rate	614.00							
	Area Weightage @ 8%	49.12							
	Total	**663.12**							
3	KSRB-4-1.3 : Providing and laying in position plain cement concrete of mix M 1:4:8 withOPC cement at 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2, No. 12/ Item No. 4.3/ PWD SR 2015-16	**Cum**							
	For Culverts		3	6.50	1.95	0.15	5.70		
	Balaji Layout						**5.70**	5070.60	**28921.00**
	Basic Rate	4695.00							
	Area Weightage @ 8%	375.60							
	Total	**5070.60**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
4	KSRB 5.2.3 Providing and constructing granite / trap / basalt Size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 Page No. 23/ Item No. 5.6/ PWD SR 2015-16	cum							
	For Culverts		3X2	6.50	0.60	0.45	10.53		
							10.53	4135.32	**43545.00**
	Basic Rate	3829.00							
	Area Weightage @ 8%	306.32							
	Total	**4135.32**							
5	KSRB 5.3-3 Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 Page No. 23/ Item No. 5.9/ PWD SR 2015-16	**Sqm**							
	For Culverts		3X2	6.50	0.50	0.45	8.78		
							8.78	**4905.36**	**43045.00**
	Basic Rate	4542.00							
	Area Weightage @ 8%	363.36							
	Total	**4905.36**							
6	KSRB 4-6.7 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1 m in depth including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 16/ Item No. 4.34/ PWD SR 2015-16	**Sqm**							
	For Culverts		3	6.50	0.60		11.70		
	For Sides		3X2	6.50	0.23		8.97		
			3X2	1.65	0.23		2.28		
							22.95	**270.00**	**6196.00**
	Basic Rate	**250.00**							
	Area Weightage @ 8%	20.00							
	Total	**270.00**							
7	KSRB 4-1.7 : : Providing and laying in position plain cement concrete of mix 1:3:6 withOPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @0.56cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2/P No. 13/ Item No. 4.7/ PWD SR 2015-16	**cum**							
	For Culverts		3X2	6.50	0.50	0.10	1.95		
	Vent Bed		3	6.50	0.60	0.10	1.17		

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
							3.12	5491.80	**17134.00**
	Basic Rate	5085.00							
	Area Weightage @ 8%	406.80							
	Total	**5491.80**							
8	KSRB 15.1.3: Providing FLush pointing to coursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. Page No. 109/ Item No. 15.1/ PWD SR 2015-16	Sqm							
	For Culverts		3X2	6.50		0.50	19.50		
							19.50	99.36	**1938.00**
	Basic Rate	92.00							
	Area Weightage @ 8%	7.36							
	Total	**99.36**							
9	KSRB 4.2.2 : Providing and laying in position plain cement concrete of mix M20 withOPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @0.459cum with superplastesisre @ 3lts conforming to IS9103-1999Reffirmed machine mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour HOM of machinery, curing, complete as per specifications. Specification. No. KBS 4.1,4.6, No. KBS 4.1,4.6, No. 13/ Item No. 4.11/ PWD SR 2015-16	**Cum**							
	For Culverts		3	6.50	1.65	0.23	7.40		
							7.40	6198.12	**45868.00**
	Basic Rate	5739.00							
	Area Weightage @ 8%	459.12							
	Total	**6198.12**							
10	KSRB 4.9.2:providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3 Page No. 17/ Item No. 4.46.2/ PWD SR 2015-16	**Qtl**							
	0.65Ton/Cum		0.065	7.40			**0.48**	69805.80	**33578.00**
	Basic Rate	64635.00							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Area Weightage @ 8%	5170.80							
	Total	**69805.80**							
11	KSRRB M400-17: Providing, laying spreading and compacting graded stones aggregate to wet mix macadam specifications including premixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying, in uniform layers with paver in sub base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH specification NO. 406, No. 154/ Item No. 20.18/ PWD SR 2015-16	Cum							
	Balaji Layout 2nd cross		1	300.00	5.20	0.20	312.00		
	1st cross Roads		1	75.00	5.20	0.20	78.00		
							390.00	1713.96	**668444.00**
	Basic Rate	1587.00							
	Area Weightage @ 8%	126.96							
	Total	**1713.96**							
12	KSRRB 500-4: providing and applying primer coat from 7.5 to 9.8 kg and 9.8 to 12.2kg per 10 sqm for surfaces of low and medium porosity respectively over prepared surface of granular base with cut bank M.C-70 or any other bitumen mixed with diesel at 10 kg per 10 sqm heated in bitumen boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specificationsDo- Medium Porosity MORTH chapter 5, No. 157/ Item No. 21.5/ PWD SR 2015-16	Sqm							
	Balaji Layout 2ndcross roads		1	300.00	5.20		1560.00		
	1stcross Roads		1	75.00	5.20		390.00		
							1950.00	70.20	**136890.00**
	Basic Rate	65.00							
	Area Weightage @ 8%	5.20							
	Total	**70.20**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
13	KSRRB M500-18: Providing and laying semi dense bituminous concrete 25mm thick with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 4.5 to 5% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desired compaction as per MORTH specifications clause No. 500.8 complete in all respects as per specifications. P. No. 159/ Item No. 21.20.1/ PWD SR 2015-16	Cum							
	Balaji Layout 2ndcross		1	300.00	5.20	0.025	39.00		
	1stCross		1	75.00	5.20	0.025	9.75		
							48.75	9264.24	**451632.00**
	Basic Rate	8578.00							
	Area Weightage @ 8%	686.24							
	Total	**9264.24**							
14	Lead for Disposal of Debris shall be payable at carage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km (Page No.123,	Cum							
			Qty. Vide Item No. 1				**250.86**		
							250.86	67.32	**16888.00**
	Basic Rate Lead Charges Upto 2.00 Kms	5.12							
	PWD SR 2010-11 (P.118/I.17.1) For loading	62.20							
	Total	**67.32**							
							Grand Total		**1976724.00**
15	For 1% Third Party Inspection Charges								**19767.00**
16	Miscesallaneous Charges	L/S							3509
								Total	**2000000.00**

Rupees Twenty Lakh(s) Only

CERTIFICATE

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2015-16
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Executive Engineer
Byatarayanapura Division
BBMP, Bangalore-92
16/12/15

Assistant Engineer
ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Assistant Executive Engineer
Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore

Executive Engineer
Byatarayanapura Division
Bruhat Bangalore Mahanagara Palike

Administrative Approval
Accorded For 20.00 lakhs
Head of A/C P3075
CER NO : 49 **Dt:** 14.12.15

TA CE (YNK)

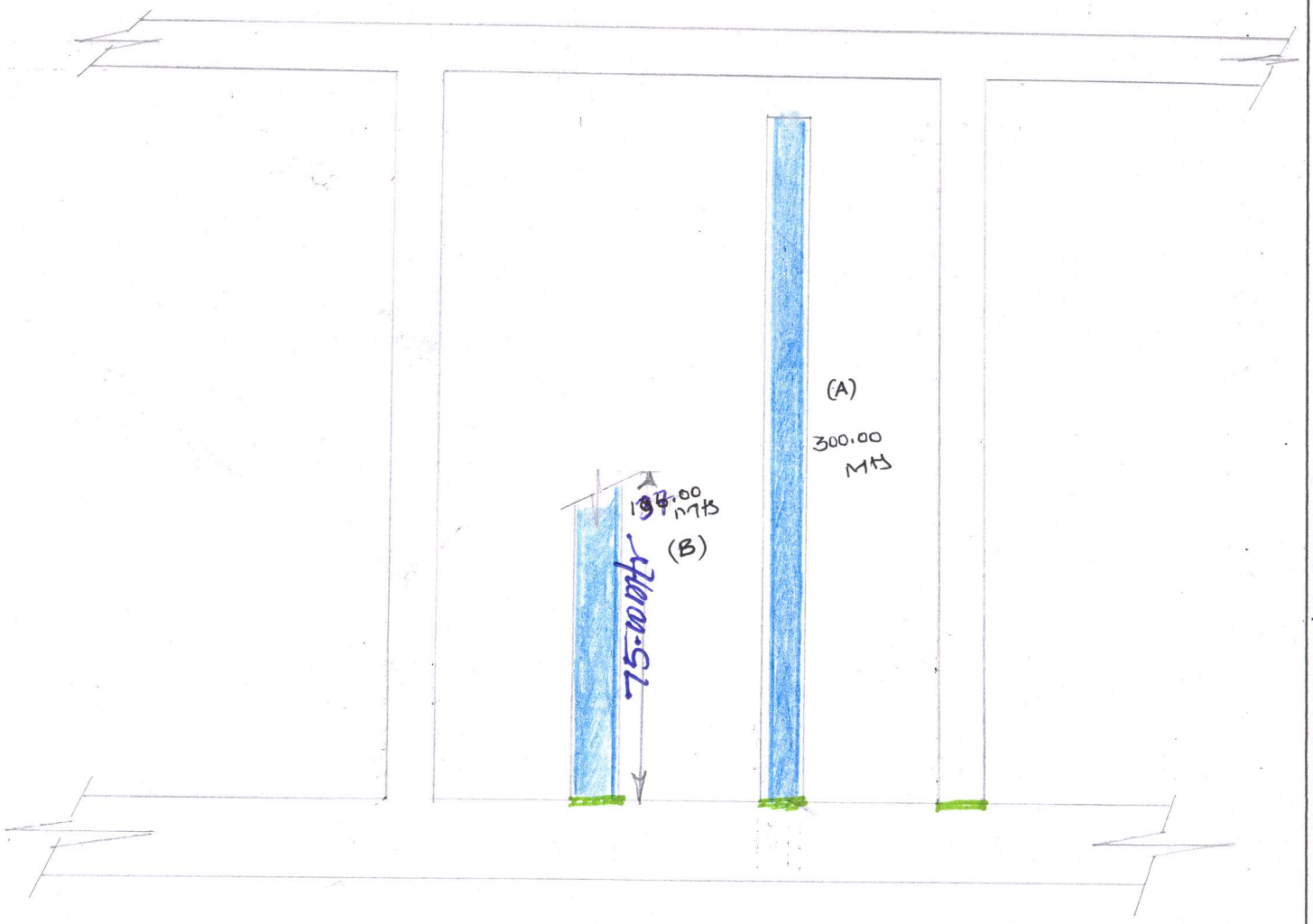
TECHNICAL SANCTION
Accorded For Rs. 20,00000/-
Head of A/c. P-3075
Div. Ref. No. 257/15-16 Date 16/12/15
AE
EE(BTP)

Name of Wrok: Improvements to Roads and Drains at Balaji Layout near Shobha Apartments near Railway Bridge in Ward No. 6 Byatarayanapura Sub Division

(15)

PROPOSED CULVERTS,

PROPOSED S,D,B,C,



ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು-24